

Claims

[c1] WHAT IS CLAIMED IS:

1. An articulating storage compartment suitable for use in a door trim panel comprising:
a storage bin having a front, a back, two sides, a closed bottom and an open top, adaptable to be mounted in an opening in a door trim panel;
each of said two sides having located near the top of said storage bin an articulating track into which a guide boss located on said door trim panel is mounted;
each of said two sides further having located near the bottom of said storage bin a rotational track into which a guide boss located on said door trim panel is mounted;
thereby providing for the opening outward of said door trim panel and for closing inward of said door trim panel an articulating storage compartment.

[c2] 2. The articulating storage compartment as claimed in Claim 1 wherein, said storage bin front has an access lip located on the outer surface thereof.

[c3] 3. The articulating storage compartment as claimed in Claim 1 wherein, said articulating storage compartment is composed of a plastic.

[c4] 4.The articulating storage compartment as claimed in Claim 3 wherein, said plastic is selected from the group consisting of polypropylene, reinforced polypropylene, ABS, polycarbonate, polycarbonate/ABS, nylon, and poly-acetal.

[c5] 5.The articulating storage compartment as claimed in Claim 1 wherein, said articulating storage compartment is produced by molding, preferably injection molding.

[c6] 6.An articulating storage compartment suitable for use in a door trim panel comprising:
a storage bin having a front, a back, two sides, a closed bottom and an open top, adaptable to be mounted in an opening in a door trim panel;
each of said two sides having located near the top of said storage bin a articulating track with a locking portion toward the front of said storage bin into which a guide boss located on said door trim panel is mounted;
each of said two sides further having located near the bottom of said storage bin a rotational track providing for the pivoting and vertical movement to allow locking of said storage bin into which a guide boss located on said door trim panel is mounted;
thereby providing for the opening outward of said door trim panel and for closing inward of said door trim panel

an articulating storage compartment that is positioned in a locked position when fully closed within said door trim panel.

- [c7] 7.The articulating storage compartment as claimed in Claim 6 wherein, said storage bin front has an access lip located on the outer surface thereof.
- [c8] 8.The articulating storage compartment as claimed in Claim 6 wherein, said articulating storage compartment is composed of a plastic.
- [c9] 9.The articulating storage compartment as claimed in Claim 8 wherein, said plastic is selected from the group consisting of polypropylene, reinforced polypropylene, ABS, polycarbonate, polycarbonate/ABS, nylon, and poly-acetal.
- [c10] 10.The articulating storage compartment as claimed in Claim 6 wherein, said articulating storage compartment is produced by molding, preferably injection molding.
- [c11] 11.The articulating storage compartment as claimed in Claim 6 wherein, said articulating storage compartment has a spring on each side of said storage bin to prevent the storage compartment from opening during vehicle door closure.

- [c12] 12. An articulating storage compartment suitable for use in a door trim panel comprising:
a storage bin having a front, a back, two sides, a closed bottom and an open top, adaptable to be mounted in an opening in a door trim panel;
each of said two sides having located near the top of said storage bin a guide boss mounted within an articulating track located on said door trim panel, and a spring retaining clip located above said rotational boss;
a biasing spring having two ends, one end mounted in said spring retaining clip and one end mounted in said rotational boss;
each of said two sides further having located near the bottom of said storage bin a rotational boss mounted in a corresponding bore located on said door trim panel;
thereby providing for the opening outward of said door trim panel and for closing inward of said door trim panel an articulating storage compartment.
- [c13] 13. The articulating storage compartment as claimed in Claim 12 wherein, said storage bin front has an access lip located on the outer surface thereof.
- [c14] 14. The articulating storage compartment as claimed in Claim 12 wherein, said articulating storage compartment is composed of a plastic.

[c15] 15. The articulating storage compartment as claimed in Claim 14 wherein, said plastic is selected from the group consisting of polypropylene, reinforced polypropylene, ABS, polycarbonate, polycarbonate/ABS, nylon, and polyacetal.

[c16] 16. The articulating storage compartment as claimed in Claim 12 wherein, said articulating storage compartment is produced by molding, preferably injection molding.